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| Module designation | Extension Science and Education |
| Semester(s) in which the module is taught | Odd semester |
| Person responsible for the module | Prof. Ir. Budi Guntoro, S.Pt., M.Sc., Ph.D., IPU., ASEAN Eng. Ir. F. Trisakti Haryadi, M.Si., Ph.D., IPM. Ir. Endang Sulastri, S.Pt., M.A., Ph.D., IPM. Dr. Ir. Siti Andarwati, S.Pt., M.P., IPM. |
| Language | Bahasa and English |
| Relation to curriculum | Specialization's Elective |
| Teaching methods | Classical lecture and discussion |
| Workload (incl. contact hours, self-study hours) | Total workload: 79 hours Contact hours: - Lecture: 23 hours - Academic activity: 28 hours Private study: 28 hours |
| Credit points | 2/0 |
| Required and recommended prerequisites for joining the module | None |
| Module objectives/intended learning outcomes | <p>Course Outcomes(CO):</p> <ol style="list-style-type: none"> 1. Able to explain the fundamentality and philosophy of extension science and its roles in livestock-industry development. 2. Able to evaluate the learning process in extension based the principle of andragogy and theory of adult learning. 3. Able to evaluate methods and approaches in livestock-based extension. 4. Able to analysis program planning, evaluation & diffusion and adoption of innovations in extension. <p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> - Attitudes and Behaviors: <ol style="list-style-type: none"> 1. Showing the social sensitivity and attention to the community and environment by respecting the culture diversity, view, religious, beliefs, and other people's opinion, and also obey the rules. (CO1, CO2, CO3, CO4) 2. Be accountable in carrying the professional practice that includes ability to accept accountability towards decision and professional action. It shall be according to the scope of the practice under their responsibility and laws. (CO1) - Mastery in Sciences: <ol style="list-style-type: none"> 1. Able to master the livestock production science, animal nutrition and fed science, animal products technology, and the livestock social economics in relation to food security and environment. (CO1, CO2, CO3) 2. Able to master the design, management, and development of livestock research. (CO4) - Special skills: <ol style="list-style-type: none"> 1. Able to formulate and solve problems in the national development especially in terms of animal husbandry. (CO2, CO3, CO4) 2. Able to solve problems and anticipate issues in the development of animal science and industry. (CO2, CO3, |

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| | <p>CO4)</p> <p>- General skills:</p> <ol style="list-style-type: none"> 1. Able to develop logical, critical, systematic, and creative thought through scientific research, creation of design in the science and technology, which pays attention and applies humanity values according to their expertise. The graduates are able to arrange scientific concept and the study result based on the principles, procedures, and scientific ethics. (CO1, CO2, CO3, CO4) 2. Able to make a decision in the context of solving problems in the development of science and technology, which pays attention and applies humanity values based on analysis study or experiment towards information and data. (CO1, CO2, CO3, CO4) 3. Able to communicate spoken and written English effectively by using the information technology for the development of animal science and its implementation. (CO1, CO2, CO3, CO4) | | | |
| Content | <p>This two credits course covers the fundamentality and philosophy of extension science and education, the principle of andragogy, and theory of andragogy. Students will also discuss the extension methods and approaches, planning, evaluation of extension and diffusion, and innovation adoption.</p> | | | |
| Exams and assessment formats | Assessment Components | | Course Outcomes (CO) | Percentage (%) |
| | 1. Midterm exam (written test, take home exam, paper assignment) | | CO1 & CO2 | 30 |
| | 2. Final exam (written test, take home exam, paper assignment) | | CO3 & CO4 | 30 |
| | 3. Presentation | | CO1, CO2, CO3, & CO4 | 20 |
| | 4. Take-home written assignments | | CO4 | 20 |
| | Grade and Score | | | |
| | Grade | Score | Grade | Score |
| | A | ≥80 | C+ | 45-49,9 |
| | A- | 75-79,9 | C | 40-44,9 |
| | A/B | 70-74,9 | C- | 35-39,9 |
| | B+ | 65-69,9 | C/D | 30-34,9 |
| | B | 60-64,9 | D+ | 25-29,9 |
| | B- | 55-59,9 | D | 20-24,9 |
| B/C | 50-54,9 | E | 0-19,9 | |
| Study and examination requirements | <p>The final grade in the module is composed of 30% performance on Midterm exam, 30% final exam, 20% presentation, and 20% take-home written assignment. Students must have a final grade of 70% or higher to pass</p> | | | |
| Reading list | <p>Learning books and articles related to the topics.</p> | | | |

